

# **BALANCE FLEXX HERBICIDE + ATRAZINE + GLYPHOSATE TANK MIXTURE FOR EARLY POSTEMERGENT USE IN CORN TO CONTROL OF BROADLEAF AND GLYPHOSATE-RESISTANT WEEDS - SOUTH DAKOTA**

General Information

## **PRODUCT INFORMATION**

BALANCE FLEXX Herbicide contains the corn safener Cyprosulfamide.

BALANCE FLEXX Herbicide is formulated as a suspension concentrate containing 2 pounds isoxaflutole active ingredient per gallon.

BALANCE FLEXX Herbicide also contains 2 pounds per gallon of the corn safener Cyprosulfamide.

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

BALANCE FLEXX Herbicide is effective in controlling glyphosate, triazine, plant growth regulant or ALS resistant populations of weed species which are listed in the "Weed Species Control" tables on the label.

BALANCE FLEXX Herbicide can be used on field (dent) corn for seed and blended field (dent) corn varieties. However, seed corn inbreds and male pollenators within certain corn varieties, vary in their response to BALANCE FLEXX Herbicide. Not all hybrids/inbreds 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 hybrid/inbred tolerance before applying BALANCE FLEXX Herbicide. If the tolerance of a hybrid/inbred is not known, you should apply BALANCE FLEXX Herbicide to a small area to first determine if the hybrid/inbred is tolerant prior to spraying large acreages of that hybrid/inbred.

## RESTRICTIONS FOR USE

- Use on coarse textured soils with a shallow water table - All Registered Uses:

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
- PLANT CORN AT LEAST 1 1/2 INCHES DEEP. CORN SEED MUST BE COMPLETELY COVERED WITH SOIL AND FURROW FIRMED.
- 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.
- 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 irrigate BALANCE FLEXX Herbicide into coarse soils at planting time when soils are saturated.
- Do not apply this product through any type of irrigation system.
- Do not apply this product using aerial application equipment.
- Do not use flood or furrow irrigation to apply, activate or incorporate this product.
- 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 growing season.
- In Minnesota, this product must only be used in accordance with the Minnesota Product Bulletin. The Minnesota Product Bulletin, which accompanies the sale and packaging of the product, must be in possession of the user at the time of pesticide application.

#### PRECAUTIONS FOR USE

- Application of BALANCE FLEXX Herbicide at less than listed rates for the appropriate soil will only provide suppression of sensitive weeds.

#### RESISTANCE MANAGEMENT

BALANCE FLEXX Herbicide contains the active ingredient isoxaflutole which is an HPPD inhibitor mode of action (Group 27) and controls weeds by inhibition of carotenoid biosynthesis. Naturally occurring biotypes of certain weed species with resistance to a variety of herbicide modes of actions (triazine, ALS, PPO, glyphosate, auxin, HPPD, etc.) are known to exist. Repeated use of herbicides having similar modes of action allow resistant weed species to be selected for and spread. To manage the selection and spread of resistant weed populations, it is important to

use herbicides with different modes of action in tank mixture, rotation or in conjunction with alternate cultural practices.

To help prevent the development of resistance to BALANCE FLEXX Herbicide, always use the full labeled rates as shown on the label. If applying another solo postemergence HPPD herbicide (such as Laudis, Armezon™, Impact or Callisto) in a two pass program, always include an additional effective mode of action herbicide(s) as a tank mix partner.

### Integrated Pest (Weed) Management

BALANCE FLEXX Herbicide may be integrated into an overall weed and pest management strategy whenever the use of a herbicide is required. Practices known to reduce weed development (tillage, crop competition) and herbicide use (weed scouting, proper application timing) should be followed wherever possible. Consult local agricultural and weed authorities for additional IPM strategies established for your area.

## APPLICATION PROCEDURES

### APPLICATION TIMING

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 for use in field corn production, corn grown for silage, and field (dent) corn grown for seed.

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 and 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.

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, Buctril Herbicide, or other post applied herbicides. Refer to the label of the respective sequential partner for specific use directions.

Split applications can be made. It is recommended that 60 percent of the listed broadcast rate (refer to the rate selection table below) 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, Buctril Herbicide, or other post applied herbicides. 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 crop oil concentrate or methylated seed oil 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., Gramoxone Extra, glyphosate, 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 non-ionic 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.

Harvest of corn forage is permitted at 45 days or more after an early postemergence treatment of BALANCE FLEXX Herbicide.

Early Postemergence tank mixtures, adjuvants and carrier solutions: BALANCE FLEXX Herbicide can be applied to corn in tank mixture with atrazine from spiking through the 2-leaf collar growth stage. Do not use COC, MSO, or a loaded glyphosate formulation with BALANCE FLEXX Herbicide applied to emerged field corn.

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 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.

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.

**GROUND APPLICATION**

DO NOT OVERLAP SPRAY PATTERNS BEYOND EQUIPMENT MANUFACTURERS' RECOMMENDATIONS AS EXCESSIVE RATES MAY RESULT IN ADVERSE CROP RESPONSE.

Apply BALANCE FLEXX Herbicide alone or in tank mixtures by ground equipment in a minimum of 10 gallons of spray mixture per acre. Uniform, thorough spray coverage is important to achieve consistent weed control. To minimize spray drift to non-target areas, apply this product using nozzles which deliver a coarse or larger spray droplet as defined by ASAE standard S-572 and as shown in nozzle manufacturer's catalogues. 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. Use sprayers that provide accurate and uniform application.

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. Over applications or boom overlapping may result in stand loss.

Maintain constant ground speed while applying product to ensure proper distribution. MAINTAIN ADEQUATE AGITATION AT ALL TIMES, INCLUDING MOMENTARY STOPS.

#### BANDED APPLICATION

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.

Refer in the label regarding tank mix information.

#### Limitations, Restrictions, and Exceptions

BALANCE FLEXX HERBICIDE + ATRAZINE + GLYPHOSATE TANK MIXTURE FOR EARLY POSTEMERGENT USE IN CORN TO CONTROL OF BROADLEAF AND GLYPHOSATE-

## RESISTANT WEEDS

FOR DISTRIBUTION AND USE ONLY IN THE STATE OF SOUTH DAKOTA

BALANCE FLEXX Herbicide can be applied to corn in tank mixture with atrazine and dicamba from spiking through the 2-leaf collar growth stage.

BALANCE FLEXX Herbicide + atrazine (0.5 lb ai/acre) + glyphosate (½ to 1x the glyphosate labeled rate)

Crop: Apply tank mixture to field corn from spike up to 2-leaf collar growth stage

Weeds: For enhanced control of broadleaf and glyphosate-resistant weeds

Refer to the Use Rate Table of the BALANCE FLEXX Herbicide label for use rates by soil texture.

### Notes and Restrictions:

- For use only on glyphosate-tolerant corn.
- Early season crop response may be observed under certain environmental conditions.
- Do not use COC or MSO with BALANCE FLEXX Herbicide applied to emerged field corn.
- Tank-mixtures with other herbicides or adjuvants are not recommended for early postemergence applications of BALANCE FLEXX Herbicide.

### Method

[Broadcast/Foliar Ground](#)

[Band application](#)

[Broadcast/Foliar Ground](#)

[Band application](#)

### Rates

[field\\_rates 0](#)

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### Restricted Entry Interval

12 hours

### Timings

[Postemergence \(Crop\)](#)

[Postemergence \(Weed\)](#)