

FOR WEED CONTROL IN FIELD CORN, SEED CORN AND CORN SILAGE - MINNESOTA SPECIFIC RESTRICTIONS

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 fertalizer 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

MINNESOTA SPECIFIC RESTRICTIONS

Use is prohibited in Dakota, Dodge, Fillmore, Goodhue, Houston, Mower, Olmsted, Rice, Wabasha and Winona counties and north of Interstate 94.

This product may not be applied by ground within 66 feet of the points where field surface water runoff enters perennial streams and rivers or within 200 feet around natural or impounded lakes and reservoirs. If this product is applied to highly erodible land, the 66-foot buffer or setback from runoff entry points must be planted to crop, seeded with grass or other suitable crop.

AGRICULTURAL CHEMICALS HAVE THE POTENTIAL TO MOVE INTO SHALLOW GROUNDWATER. THE FOLLOWING RESTRICTIONS ARE INTENDED TO PROTECT DRINKING WATER SUPPLIES.

Application of this product through any type of irrigation or chemigation system is prohibited.

The use of BALANCE Flexx is prohibited on irrigated fields unless an irrigation management plan is followed. For guidance, refer to the following publications for

information on managing irrigation water:

1) Irrigation Water Management (Code 449). Natural Resources Conservation Services, USDA, NRCS-Minnesota. 2012. St. Paul, Minnesota. 4 pp.

<http://efotg.sc.egov.usda.gov/references/public/MN/449mn.pdf>

2) Irrigation System, Sprinkler (Code 442). Natural Resources Conservation Services. USDA, NRCS-Minnesota. 2012. St. Paul, Minnesota. 9 pp.

<http://efotg.sc.egov.usda.gov/references/public/MN/442mn.pdf>

In irrigated fields having soils with less than 15% field moisture holding capacity, special care must be taken not to over-irrigate, since substantial over-irrigation promotes the leaching of chemicals.

Soil Restrictions

Do not use if: (1) The seasonal high water table depth (the first depth at which standing water is encountered below the ground surface) is either a) unknown or b) less than 25 feet below the ground surface, and (2) The field contains either a) soils meeting all three of the following criteria or b) one or more restricted soils named in the table below.

Criteria:

- 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

Restricted Soils Table

Abscota, Dorset, Hoopeston, Osakis, Soderville, Alganssee, Duelm, Hubbard, Oylen, Sparta, Anoka, Eden, Prairie, Kalmarville, Plainfield, Stonelake, Arvilla, Egeland, Lamont, Poppleton, Sverdrup, Brodale, Elkriver, Lasa, Radium, Syrene, Burnsville, Emmert, Lida, Rasset, Talmo, Cantlin, Estherville, Lino, Ridgeport, Thurman, Chelsea, Finchford, Litchfield, Rosewood, Torning, Chetek, Garborg, Lohnes, Rosholt, Two Inlets, Clontarf, Glendorado, Maddock, Rushlake, Ulen, Copaston, Gotham, Mahtomedi, Salida, Verndale, Corliss, Hamar, Malardi, Sandberg, Winterfield, Crowfork, Hangaard, Minneiska, Sartell, Zimmerman, Dickinson, Hawick, Minneopa, Serden, Zumbro, Dickman, Hecla, Nymore, Sioux

Method

[N.A.](#)

Restricted Entry Interval

12 hours

Timings

[N.A.](#)