

SUPPLEMENTAL LABELING FOR USE ON SEED CORN, POPCORN, AND LENTILS TOUGH® 5EC HERBICIDE



EPA Reg. No. 91746-5

This Supplemental Label expires on **May 24, 2025** and must not be used or distributed after this date.

Active Ingredient:

Pyridate* (Carbonothioic acid, O-(6-chloro-3-phenyl-4-pyridiziny) S-octyl ester): 56.07%

Other Ingredients: 43.93%

Total: **100.00%**

*Contains 5 lbs. of pyridate per gallon of product.

KEEP OUT OF REACH OF CHILDREN WARNING

It is a violation of federal law to use this product in a manner inconsistent with its labeling. The labeling must be in possession of the user at the time of application.

Read the label affixed to the container for **TOUGH® 5EC** Herbicide before applying.

Use of **TOUGH® 5EC** according to this labeling is subject to the use precautions and limitations imposed by the label affixed to the container for **TOUGH® 5EC**.

DIRECTIONS FOR USE

CORN (INCLUDING SEED CORN* AND POPCORN*)

TOUGH® 5EC may be applied by ground for preplant burndown or postemergence weed control in seed corn and popcorn.

Split applications of **TOUGH® 5EC** may be made but do not exceed a total of 24 fl. oz. per treated acre per year.

Corn may be treated up to the 8-leaf stage of corn growth, with a pre-harvest interval of 68 days.

Temporary crop response (transient chlorosis) from postemergence applications to corn may occur under extreme weather conditions or when the crop is suffering from stress. Corn quickly outgrows these effects and develops normally.

*Not all field corn inbred lines or popcorn hybrids have been tested for sensitivity to **TOUGH® 5EC**. Therefore, Belchim recommends that specific inbred lines and popcorn hybrids be thoroughly tested for potential sensitivity before treating large acreages.

RESTRICTIONS

- DO NOT apply more than a total of 24 fl. oz (0.94 lb. pyridate active ingredient) of **TOUGH® 5EC** per acre per year.
- DO NOT exceed 24 fl. oz. (0.94 lb. a.i./A) in a single postemergence application.
- To avoid excess residues, do not apply within 68 days of harvest.
- DO NOT apply this product through any type of irrigation equipment.
- DO NOT apply this product by aerial application.
- DO NOT apply this product when wind conditions will allow drift to adjacent susceptible vegetation.
- DO NOT apply to corn past the 8-leaf stage.

TOUGH® 5EC USED ALONE – POST EMERGENCE (after crop emergence)

Apply **TOUGH® 5EC** at 24 fl. oz./A per application. Always add an appropriate adjuvant to the spray tank (see the SPRAY ADDITIVES section of this label). For best results, apply **TOUGH® 5EC** to actively growing weeds and when weeds are small (before the 4-leaf stage). Weeds which emerge after application will not be controlled by **TOUGH® 5EC**.

For a list of weeds controlled by an application of **TOUGH® 5EC** see Table 1. Application of **TOUGH® 5EC** at rates less than 24 fl. oz./A (0.94 lb a.i./A) postemergence may result in incomplete weed control.

Optimal weed control is obtained when **TOUGH® 5EC** is used in a weed control program following a broad spectrum preemergence herbicide. Refer to individual product labels for precautionary statements, restrictions, rates, approved uses and a list of weeds controlled.

TOUGH® 5EC TANK MIXTURES FOR CORN

TOUGH® 5EC may be tank mixed with other registered herbicides for control of additional broadleaf weeds and/or grasses. Additionally tank mixing with other herbicides labeled for corn can be used to include a different mode of action to help control or manage the development of resistant weed biotypes.

Refer to individual product labels for precautionary statements, restrictions, rates, approved uses and a list of weeds controlled.

*Precaution: Some products available for tank mixing with **TOUGH® 5EC** may cause injury to corn when applied.*

POSTEMERGENCE TANK MIXTURES IN CORN

Apply **TOUGH® 5EC** at 8 - 24 fl. oz./A in tank mixture with other corn labeled products. Use this mixture for additional weed control. Use the lower rates of **TOUGH® 5EC** and the recommended labeled rate of the tank mix partner when weeds have fewer than 4 leaves. For broadleaf weeds above the 4-leaf stage, heavy weed infestations, or use under adverse conditions such as drought stress, use the higher labeled rates of **TOUGH® 5EC**.

Note - Not all of the tank mix pesticides listed below are registered for use on seed corn and popcorn.

Tank Mix Partner	Directions
Atrazine (e.g. AAtrex® 4L, EPA Reg. No. 100-497; AAtrex® nine-O, EPA Reg. No. 100-585)	Use this mixture for additional broadleaf weed control. Refer to product label for list of weeds controlled. The addition of a crop oil concentrate is recommended for optimum control. Do not apply this tank mixture to corn greater than 12 inches tall.
Nicosulfuron (e.g. DuPont™ Accent®Q Herbicide, EPA Reg. No. 352-773)	Use this mixture for additional grass control. Refer to product label for list of weeds controlled. The addition of a crop oil concentrate is recommended for optimum control.
Topramezone (e.g. Armezon® Herbicide, EPA Reg. No. 7969-262; ImpactZ® Herbicide, EPA Reg. No. 5481-612)	Use this mixture for additional broadleaf weed control and enhanced grass control. Refer to product label for list of weeds controlled.
Dicamba (e.g. Clarity®, EPA Reg. No. 7969-137)	Use this mixture for additional broadleaf weed control. Refer to product label for list of weeds controlled. Use only nonionic surfactant with or without liquid nitrogen fertilizer or ammonium sulfate.
Mesotrione (e.g. Callisto® Herbicide, EPA Reg. No. 100-1131)	Use this mixture for additional broadleaf weed control and enhanced grass control. Refer to product label for list of weeds controlled.
Tembotrione + thien carbazono-methyl (e.g. Capreno® Herbicide, EPA Reg. No. 264-1063)	Use this mixture for additional broadleaf weed control and enhanced grass control. Refer to product label for list of weeds controlled.

s-metolachlor + Glyphosate + Mesotrione (e.g. Halex® GT Herbicide, EPA Reg. No. 100-1282)	Use this mixture for additional broadleaf weed control and enhanced grass control. Refer to product label for list of weeds controlled.
Tembotrione (e.g. Laudis®, EPA Reg. No. 264-860)	Use this mixture for additional broadleaf weed control and enhanced grass control. Refer to product label for list of weeds controlled.
S-metolachlor + Atrazine + Mesotrione (e.g. Lexar® EZ Herbicide, EPA Reg. No. 100-1414)	Use this mixture for additional broadleaf weed control and enhanced grass control. Refer to product label for list of weeds controlled.
Glufosinate-ammonium (e.g. Liberty® 280 SL Herbicide, EPA Reg. No. 7969-448)	Use this mixture for additional broadleaf weed control. Refer to product label for list of weeds controlled. For use only on corn warranted as being tolerant to glufosinate. Application of this mixture to a corn hybrid that is not glufosinate tolerant will result in severe crop injury or death.
Primsulfuron-methyl + Dicamba (e.g. Northstar® Herbicide, EPA Reg. No. 100-923)	Use this mixture for additional broadleaf and grass weed control. Refer to product label for list of weeds controlled. If the corn is less than 12 inches tall, use crop oil concentrate or nonionic surfactant if an adjuvant needs to be added. If the corn is bigger than 12 inches, use only nonionic surfactant with or without liquid nitrogen fertilizer or ammonium sulphate.
Rimsulfuron + Mesotrione (e.g. DuPont™ Realm®Q, EPA Reg. No. 352-837)	Use this mixture for additional broadleaf and grass weed control. Refer to product label for list of weeds controlled.
Glyphosate (e.g. RoundUp® WeatherMAX Herbicide, EPA Reg. No. 524-537; RoundUp® PowerMAX Herbicide, EPA Reg. No. 524-549; RoundUp® PowerMAX II Herbicide, EPA Reg. No. 524-537)	Use this mixture for additional broadleaf weed control. Refer to product label for list of weeds controlled. For use only in glyphosate tolerant corn. Application of this mixture to a corn hybrid that is not glyphosate tolerant will result in crop death. Add spray grade ammonium sulphate (AMS) at a rate that delivers 8.5-17.0 lbs. of AMS/100 gallons of water. If the glyphosate product label calls for an adjuvant in addition to AMS, add a non-ionic surfactant (NIS), crop oil concentrate (COC) or methylated seed oil (MSO) type adjuvants to this tank mixture.
Dicamba + Diflufenzopyr (e.g. Status® Herbicide EPA Reg. No. 7969-242)	Use this mixture for additional broadleaf weed control. Refer to product label for list of weeds controlled.
Nicosulfuron + Rimsulfuron (e.g. DuPont™ Steadfast® Herbicide, EPA Reg. No. 352-608; DuPont™ Steadfast® Q Herbicide, EPA Reg. No. 352-774)	Use this mixture for additional broadleaf weed control. Refer to product label for list of weeds controlled.

LENTILS

TOUGH® 5EC can be applied by ground application as a preemergence or postemergence treatment to lentils with a pre-harvest interval of 60 days. Apply **TOUGH® 5EC** at 6-20 fl. oz./A per application postemergence.

Apply **TOUGH® 5EC** at 12-20 fl. oz./A per application preemergence.

Split applications of **Tough® 5 EC** may be made but do not exceed a total of 20 fl. oz. per treated acre per year.

For best results, apply **TOUGH® 5EC** to actively growing weeds and when weeds are small (before the 4-leaf stage). Weeds which emerge after application will not be controlled by **TOUGH® 5EC**.

For a list of weeds controlled by an application of **TOUGH® 5EC** see Table 1. In postemergence applications at rates less than 10 fl. oz / acre, use **TOUGH® 5EC** as part of an integrated weed control strategy, including in combination with other registered herbicides. Always verify acceptable crop tolerance before wide-spread use of unproven tank mix combinations.

Optimal weed control is obtained when **TOUGH® 5EC** is used in a weed control program following a broad spectrum preemergence herbicide. Refer to individual product labels for precautionary statements, restrictions, rates, approved uses and a list of weeds controlled.

RESTRICTIONS

- DO NOT apply more than a total of 20 fl. Oz. (0.78 lb. pyridate active ingredient) of **TOUGH® 5EC** per acre per year.
- DO NOT exceed 20 fl. oz. (0.78 lb. a.i./A) in a single postemergence application.
- To avoid excess residues, do not apply within 60 days of harvest.
- DO NOT apply this product through any type of irrigation equipment.
- DO NOT apply this product by aerial application.
- DO NOT apply this product when wind conditions will allow drift to adjacent susceptible vegetation.

TOUGH® 5EC TANK MIXTURES FOR LENTILS

TOUGH® 5EC may be tank mixed with other registered herbicides for control of additional broadleaf weeds and/or grasses. Additionally, tank mixing with other herbicides labeled for lentils can be used to include a different mode of action to help control or manage the development of resistant weed biotypes.

Refer to individual product labels for precautionary statements, restrictions, rates, approved uses and a list of weeds controlled.

Tank Mix Partner	Directions
Metribuzin (e.g. Sencor® DF 75%, EPA Reg. No. 264-738; Tricor® 4F, EPA Reg. No. 70506-68)	Use this mixture for additional broadleaf weed control. Refer to product label for list of weeds controlled.
Sethoxydim (e.g. Poast® Herbicide, EPA Reg. No. 7969-58)	Use this mixture for additional grass weed control. Refer to product label for list of weeds controlled.
Quizalofop-P-ethyl (e.g. Dupont™ Assure® II Herbicide, EPA Reg. No. 352-541)	Use this mixture for additional grass weed control. Refer to product label for list of weeds controlled.



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