



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, DC 20460

OFFICE OF CHEMICAL SAFETY
AND POLLUTION PREVENTION

May 25, 2022

Adam Vaughan
Regulatory Manager
Belchim Crop Protection NV/SA
3070 McCann Farm Drive, Suite 112
Garnet Valley, PA 19060

Subject: PRIA Label Amendment – New uses on lentils, rapeseeds (crop subgroup 20A),
popcorn, and seed corn
Product Name: TOUGH 5EC HERBICIDE
EPA Registration Number: 91746-5
Application Date: 10/27/2020
Decision Number: 567390

Dear Adam Vaughan:

The application referred to above, submitted under the Federal Insecticide, Fungicide and Rodenticide Act, as amended is acceptable under FIFRA sec 3 (c)(5). You must submit and/or cite all data required for registration/reregistration/registration review of your product when the Agency requires all registrants of similar products to submit such data.

A stamped copy of your labeling is enclosed for your records. This labeling supersedes all previously accepted labeling. You must submit one (1) copy of the final printed labeling before you release the product for shipment with the new labeling. In accordance with 40 CFR 152.130(c), you may distribute or sell this product under the previously approved labeling for 18 months from the date of this letter. After 18 months, you may only distribute or sell this product if it bears this new revised labeling or subsequently approved labeling. "To distribute or sell" is defined under FIFRA section 2(gg) and its implementing regulation at 40 CFR 152.3.

Should you wish to add/retain a reference to the company's website on your label, then please be aware that the website becomes labeling under the Federal Insecticide Fungicide and Rodenticide Act and is subject to review by the Agency. If the website is false or misleading, the product would be misbranded and unlawful to sell or distribute under FIFRA section 12(a)(1)(E). 40 CFR 156.10(a)(5) list examples of statements EPA may consider false or misleading. In addition, regardless of whether a website is referenced on your product's label, claims made on the website may not substantially differ from those claims approved through the registration process. Therefore, should the Agency find or if it is brought to our attention that a website contains false or misleading statements or claims substantially differing from the EPA approved registration, the website will be referred to the EPA's Office of Enforcement and Compliance.

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

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with FIFRA section 6. If you have any questions, please contact Sarah Meadows by phone at 202-566-2828, or via email at meadows.sarah@epa.gov.

Sincerely,

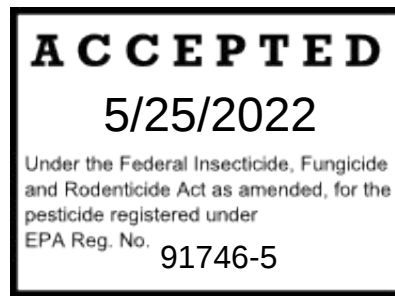


Emily Schmid, Product Manager 25
Herbicide Branch
Registration Division (7505P)
Office of Pesticide Programs

Enclosure

[Master Label]

Tough® 5 EC HERBICIDE



PYRIDATE	GROUP	6	HERBICIDE
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For the postemergence control of annual broadleaf weeds in Field corn, Seed corn, Popcorn, Peanuts, Chickpea (Garbanzo beans), Lentils, Rapeseeds (subgroup 20A), Brassica head and stem vegetables (subgroup 5A), Cabbage, Collards and Mint.

Active Ingredient:

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

Other Ingredients: 43.93%

Total: 100.0%

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

Nonrefillable Container

Net: _____ Gallons

OR

Refillable Container

Net: _____ Gallons

KEEP OUT OF REACH OF CHILDREN WARNING / AVISO

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.)

READ THE LABEL [AND ATTACHED BROCHURE] [AND ATTACHED
BOOKLET] BEFORE USING

See Inside Booklet or Back Panel for First Aid Statement

See Inside Booklet for Directions for Use

Produced for:

Belchim Crop Protection N.V/S.A.

Technologielaan 7

B -1840 Londerzeel

Belgium

EPA Reg. No. 91746-5

EPA Establishment No.: _____

Made in _____



Distributed By:

Belchim Crop Protection US Corporation

2751 Centerville Road I Suite 100

Wilmington, DE 19808

Phone: 855-445-7990

Info.usa@belchim.com

For Chemical Emergency, Spill, Leak, Fire, Exposure or Accident

Call CHEMTREC Day or Night

1-800-424-9300

{ Note to reviewer: bold, italicized text within curled brackets { } indicates a note or explanation to the reviewer that will not be included on the final label. Text within square brackets [] indicates optional text. As a Master Label, some crops/uses may be removed from the final printed labelling. }

FIRST AID	
If in eyes	• Hold eye open and rinse slowly and gently with water for 15-20 minutes. • Remove contact lenses, if present after the first 5 minutes, then continue rinsing eye. • Call a poison control center or doctor for treatment advice.
If on skin	• Take off contaminated clothing. • Rinse-skin immediately with plenty of water for 15-20 minutes • Call a poison control center or doctor for treatment advice.
If swallowed	• Immediately call a poison control center or doctor. • Do not induce vomiting unless told to do so by a poison control center or doctor. • Do not give any liquid to the person. • Do not give anything by mouth to an unconscious person.
NOTE TO PHYSICIAN Contains petroleum distillate. Vomiting may cause aspiration pneumonia.	
Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact (800) 424-9300 for emergency medical treatment information.	
HOT LINE NUMBER For Hazardous Materials [or Dangerous Goods] Incident Spill, Leak, Fire, Exposure, or Accident Call CHEMTREC Day or Night 1-800-424-9300	

ATTENTION

Although this label may appear similar to the label on a product you may have used, there may be important label differences. Users must read, understand and strictly follow all label directions, precautions and restrictions. It is the user's responsibility to be sure the product is approved for sale or use on the intended crop and for use in the specific geographic area. It is the user's responsibility to be aware of and to follow all State or local precautions or restrictions not appearing on this product label. Prior to purchase or use of this product, read the Conditions of Sale and Limitation of Warranty and Liability of this label. If the terms and conditions are unacceptable, return the product immediately in the original and unopened container.

PRECAUTIONARY STATEMENTS

Hazards to Humans and Domestic Animals

WARNING/AVISO

Causes substantial but temporary eye injury. Causes skin irritation. Harmful if absorbed through skin. Harmful if swallowed. Do not get in eyes, on skin, or on clothing. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.

Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Remove and wash contaminated clothing before reuse.

Personal Protective Equipment (PPE)

Applicators and other handlers must wear:

- Long-sleeved shirt and long pants
- Chemical-resistant gloves, made of barrier laminate or butyl rubber ≥ 14 mils
- Chemical-resistant footwear plus socks
- Protective eyewear
- When mixing and loading, wear a chemical-resistant apron.

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.

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 PPE 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

Do not apply directly to water, or 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 wash water or rinsate.

Surface Water Advisory:

This product may impact surface water quality due to runoff of rain water. This is especially true for poorly draining soils and soils with shallow ground water.

This product is classified as having high potential for reaching aquatic sediment via runoff for several days after application. A level, well-maintained vegetative buffer strip between areas to which this product is applied and surface water features such as ponds, streams, and springs will reduce the potential loading of pyridate from runoff water and sediment. Runoff of this product will be reduced by avoiding applications when rainfall or irrigation is expected to occur within 48 hours. Sound erosion control practices will reduce this product's potential to reach aquatic sediment via runoff.

Physical or Chemical Hazards

Flammable. Keep away from heat and open flame.

DIRECTIONS FOR USE

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

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

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 interval. 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:

- Long-sleeved shirt and long pants

- Chemical-resistant gloves, made of barrier laminate or butyl rubber $\geq$ 14 mils
- Chemical-resistant footwear plus socks
- Protective eyewear

FAILURE TO FOLLOW THE DIRECTIONS FOR USE AND PRECAUTIONS ON THIS LABEL MAY RESULT IN POOR WEED CONTROL, CROP INJURY, OR ILLEGAL RESIDUES.

PRODUCT INFORMATION

Tough® 5 EC HERBICIDE is an emulsifiable concentrate formulation containing 5 lbs. of pyridate per gallon of product.

Tough® 5 EC is a postemergence herbicide for the selective contact control or suppression of actively growing annual broadleaf weeds in field corn, seed corn, popcorn, peanuts, chickpea (Garbanzo beans), lentils, rapeseeds (subgroup 20A), brassica head and stem vegetables (subgroup 5A), cabbage, collards and mint. Use Tough® 5 EC sequentially and/or tank mixed with other herbicides as part of a complete weed control program. It is the pesticide user's responsibility to ensure that all products are registered for the intended use. Read and follow the applicable restrictions and limitations and directions for use on all product labels involved in tank mixing. Users must follow the most restrictive directions for use and precautionary statements of each product in the tank mixture:

- Tough® 5 EC is not effective for the control of most grass weeds. Postemergence grass herbicides can be tank mixed with Tough® 5 EC to provide broad spectrum weed control in corn (see appropriate section of label for this information).
- Tough® 5 EC can be applied following a preemergence grass herbicide application.
- Tough® 5 EC can be used in combination with a burndown herbicide, prior to planting, to provide added burndown and residual weed control in field corn.

Tough® 5 EC is a contact herbicide which is absorbed rapidly by the leaves of plants. Tough® 5 EC does not offer any residual weed control. Therefore, weeds must have emerged at the time of application. Sensitive weeds show symptoms of marginal yellowing which is then followed by yellowing and browning of the entire leaf within 4-10 days after application. The speed of action is increased at higher temperatures and under good growing conditions. Weed control may be decreased under adverse conditions such as drought, low temperatures, etc. Under good conditions, Tough® 5 EC is rainfast within 60 minutes following the application.

RESISTANCE MANAGEMENT

Tough® 5 EC is a group 6 Herbicide (containing the active ingredient pyridate).

For resistance management, Tough 5 EC is a Group 6 herbicide. Any weed population may contain or develop plants naturally resistant to Tough 5 EC and other Group 6 herbicides. The resistant biotypes may dominate the weed population if these herbicides are used repeatedly in the same field.

Appropriate resistance-management strategies should be followed.

To delay herbicide resistance take one or more of the following steps:

- Rotate the use of Tough 5 EC or other Group 6 herbicides within a growing season sequence or among growing seasons with different herbicide groups that control the same weeds in a field.
- Use tank mixtures with herbicides from a different group if such use is permitted; where information on resistance in target weed species is available, use the less resistance-prone partner at a rate that will control the target weed(s) equally as well as the more resistance-prone partner. Consult your local extension service or certified crop advisor if you are unsure as to which active ingredient is currently less prone to resistance.
- Adopt an integrated weed-management program for herbicide use that includes scouting and uses historical information related to herbicide use and crop rotation, and that considers tillage (or other mechanical control methods), cultural (e.g., higher crop seeding rates; precision fertilizer application method and timing to favor the crop and not the weeds), biological (weed-competitive crops or varieties) and other management practices.
- Scout after herbicide application to monitor weed populations for early signs of resistance development. Indicators of possible herbicide resistance include: (1) failure to control a weed species normally controlled by the herbicide at the dose applied, especially if control is achieved on adjacent weeds; (2) a spreading patch of non-controlled plants of a particular weed species; (3) surviving plants mixed with a controlled individuals of the same species. If resistance is suspected, prevent weed seed production in the affected area by an alternative herbicide from a different group or by a mechanical method such as hoeing or tillage. Prevent movement of resistant weed seeds to other fields by cleaning harvesting and tillage equipment when moving between fields, and planting clean seed.
- If a weed pest population continues to progress after treatment with this product, discontinue use of this product, and switch to another management strategy or herbicide with a different mode of action, if available.
- Contact your local extension specialist or certified crop advisors for additional pesticide resistance-management and/or integrated weed-management recommendations for specific crops and weed biotypes.
- For further information or to report suspected resistance, contact Belchim Crop Protection at 855-445-7990 or at www.belchimusa.com.

INTEGRATED PEST (WEED) MANAGEMENT

Tough® 5 EC should 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, banding) should be followed wherever possible. Consult local agricultural and weed authorities for additional IPM strategies established for your area.

USE PRECAUTIONS

- The temperature of the diluted spray solution and air should be above 50°F at spraying
- Overdosing (spray boom overlap) and spray drift should be avoided
- Do not apply to crops under stress e.g. from drought, nutrient deficiency or where a previous treatment has de-waxed the leaves

SPRAY DRIFT DIRECTIONS

Do not allow spray to drift onto adjacent land or crops. When drift may occur, do everything possible to reduce spray drift, including:

- Do not spray if wind speeds are gusty or become 10 mph or greater.
- Use extreme caution when conditions favor drift (high temperatures, low relative humidity).
- Do not apply during a temperature inversion. If an inversion is suspected, consult the local weather service before applying Tough® 5 EC
- These practices can further reduce drift:
 - a. Use spray nozzles that provide medium-coarse droplets (250-400 microns VMD). Nozzles that produce extremely small droplets are more likely to cause spray drift.
 - b. Apply as close to target plants as practical while maintaining a good spray pattern for adequate spray coverage.

AVOIDING SPRAY DRIFT AT THE APPLICATION SITE IS THE RESPONSIBILITY OF THE APPLICATOR.

The interaction of equipment and weather related factors determine the potential for spray drift. The applicator is responsible for considering all these factors when making a decision.

Sensitive areas

The pesticide must only be applied when the potential for drift to adjacent sensitive areas (e.g. residential areas, bodies of water, known habitat for threatened or endangered species, non-target crops) is minimal (e.g. when wind is blowing away from the sensitive areas).

APPLICATION INFORMATION

Tough® 5 EC is noncorrosive to spray equipment. Before preparing spray mixture, be sure all equipment is clean to prevent uneven applications, clogging of spray nozzles, or crop injury.

Apply Tough® 5 EC with a boom sprayer calibrated to a constant speed and constant, uniform delivery.

Apply Tough® 5 EC in sufficient water (15 gal/A minimum; 20-30 gal/A recommended), at a pressure of 30- 40 psi to ensure proper coverage. Thorough coverage of target weeds is required for optimum results. Use higher spray volumes when treating dense or tall vegetation.

Large crop and weed canopies can shelter smaller weeds. Directed applications below large crop canopies are recommended for optimum coverage of target weeds.

Always ensure that agitation is maintained until spraying is completed, even if stopped for brief periods of time. If the agitation is stopped for more than 5 minutes, suspend the spray solution again by running on full agitation prior to spraying.

RESTRICTIONS:

- DO NOT apply this product through any type of irrigation equipment
- DO NOT apply this product by aerial application
- Removable chemical extraction probes (also known as “stingers”) used in suction/extraction systems must be rinsed within the pesticide container prior to removal.

SPRAY ADDITIVES

POSTEMERGENCE ADJUVANTS

When an adjuvant is to be used with this product, the use of an adjuvant that meets the standards of the Chemical Producers and Distributors Association (CPDA) adjuvant certification program is recommended.

Adjuvants (nonionic surfactants, crop oil concentrate or liquid fertilizers) may be used with Tough® 5 EC.

- A nonionic surfactant with a minimum of 80% of the constituents effective as a spray adjuvant, at the rate of 1 qt./100 gals. of spray volume (0.25% volume/volume) or
- A petroleum- or vegetable- based crop oil concentrate containing not less than 12% emulsifier at 1-4 pts./A as specified on the crop oil adjuvant label. The concentration of the crop oil concentrate should not exceed 2.5% volume/volume.
- A liquid nitrogen fertilizer (28-34% nitrogen- ammonium form) may also be added at 2-4 qts./A.
- A spray grade ammonium sulfate may be used at the rate of 2-4 lbs./A. Liquid nitrogen fertilizers or ammonium sulfate should not be used as a substitute for crop oil concentrate or nonionic surfactant in the spray mixture.

RESTRICTIONS

1. DO NOT use adjuvants, surfactants or any tank mix partner with adjuvant properties when Tough® 5 EC is to be applied on lentils, rapeseeds (subgroup 20A), brassica head and stem vegetables (subgroup 5A), cabbage or collards.
2. DO NOT use liquid fertilizer as the complete spray carrier when applying Tough® 5 EC after crop emergence since crop injury may occur.

SPRAY EQUIPMENT

Cleaning Equipment After Tough® 5 EC Application

The sprayer must be cleaned before and after use of Tough® 5 EC. Failure to clean sprayer may result in unsatisfactory results with Tough® 5 EC or injury to other crops sprayed with the equipment. Refer to the label of the product used previously or tank mixed with Tough® 5 EC for additional cleaning instructions.

1. Drain sprayer tank, hoses, spray boom and spray nozzles. Use a high-pressure detergent wash to remove physical sediment and residues from the inside of the sprayer tank and thoroughly rinse. Then, thoroughly flush sprayer hoses, spray boom and spray nozzles with a clean water rinse. Remove and clean spray tips and all filters and screens (tank, spray hose and spray tips) separately in the ammonia solution of Step 2.
2. Next, prepare a sprayer cleaning solution by adding three gallons of ammonia (containing at least 3% active) per 100 gallons of clean water. Prepare sufficient cleaning solution to allow the operation of the spray system for a minimum of 15 minutes to thoroughly flush hoses, spray boom and spray nozzles.
3. Shut down sprayer and keep sprayer system charged with ammonia solution left in the spray tank, hoses, spray booms and spray nozzles overnight or during storage.
4. Before using the sprayer, completely drain the sprayer system. Rinse the tank with clean water and flush through the hoses, spray boom, and spray nozzles with clean water. Remove and clean spray tips and all filters and screens (tank, spray hose and spray tip) separately in an ammonia solution.
5. Properly dispose of all cleaning solution and rinsate in accordance with Federal, State, and local regulations and guidelines. Do not apply sprayer cleaning solutions or rinsate to sensitive crops. Do not store the sprayer overnight or for any extended period of time with Tough® 5 EC spray solution remaining in the tank, spray lines, spray boom plumbing, spray nozzles or strainers. If the sprayer has been stored or idle, purge the spray boom and nozzles with clean water before beginning any application. Should small quantities of Tough® 5 EC remain in inadequately cleaned mixing, loading and/or spray equipment, they may be released during subsequent applications potentially causing effects to certain crops and other vegetation. Belchim Crop Protection NV/SA accepts no liability for any effects due to inadequately cleaned equipment. When Tough® 5 EC has been tank mixed refer to the label of the product used previously or tank mixed with Tough® 5 EC for cleaning.

MIXING INSTRUCTIONS

Always refer to the labels of tank mix partner pesticide products for mixing directions and precautions which may differ from those outlined here. Use in accordance with the most restrictive of label limitations and precautions. No label dosage rates may be exceeded. This product cannot be mixed with any product containing a label prohibition against such mixing. Do not tank mix Tough® 5 EC with any

other insecticide, fungicide, herbicide, fertilizer solution or adjuvant not recommended on the label without testing compatibility of any tank mix combination, as poor mixing may result. It is recommended that the compatibility of any tank mix combination be tested on a small scale such as a jar test before actually tank mixing.

Follow the correct mixing order and mixing instruction or the material may not mix properly. Poor mixing may result in crop injury or poor product performance.

1. Make sure the spray tank is clean before mixing. If it is contaminated with other materials, mixing problems and/or clogging may occur, or injury to the crop may result.
2. Fill the spray tank $\frac{1}{4}$ - $\frac{1}{2}$ full with clean water and begin agitation.
3. Make certain that the agitation system is working properly and creates a rippling effect or rolling action on the liquid surface. Maintain agitation throughout the mixing and spraying process.
4. Add any products packaged in water-soluble film to the tank first. Allow the packets to completely dissolve and the contents of the packets to fully and uniformly disperse into the mix water. Important: Water-soluble packets must always be the first material put into the spray tank after water. For products packaged in water-soluble packaging, do not tank mix with products containing boron and do not mix in equipment previously used to apply a product mixture containing boron unless the tank and spray equipment have been thoroughly cleaned.
5. While maintaining agitation, continue filling the spray tank. When the tank is $\frac{3}{4}$ full, add desired tank mix partners. Water-dispersible granules or other dry formulations should be added first. Allow material to disperse. Then add Tough® 5 EC followed by other labeled emulsifiable concentrate tank mix partners.
6. Follow by adding either:
 - A nonionic surfactant with a minimum of 80% of the constituents effective as a spray adjuvant, at the rate of 1 qt./100 gals. of spray volume (0.25% volume/volume) or
 - A petroleum- or vegetable- based crop oil concentrate containing not less than 12% emulsifier at 1-4 pts./A as specified on the crop oil adjuvant label. The concentration of the crop oil concentrate should not exceed 2.5% volume/volume.
 - In addition to crop oil concentrate or nonionic surfactant, a liquid nitrogen fertilizer (28-34% nitrogen- ammonium form) may also be added at 2-4 qts./A.
 - Instead of the liquid nitrogen fertilizer, a spray grade ammonium sulfate may be used at the rate of 2-4 lbs./A. Liquid nitrogen fertilizers or ammonium sulfate should not be used as a substitute for crop oil concentrate or nonionic surfactant in the spray mixture.Do not use the liquid fertilizer as the complete spray carrier after crop emergence.
7. If flowable or liquid formulations appearing on the Tough® 5 EC label are desired as tank mix partners, add them next while continuing to agitate. When Tough® 5 EC is used alone or in tank mix combinations, either crop oil concentrate or a nonionic surfactant should be included, with or without liquid nitrogen fertilizer or ammonium sulfate, as described in item 6 above. Do not use crop oil concentrate as the spray adjuvant when using tank mixtures with products

containing the active ingredient dicamba. Use a nonionic surfactant with or without liquid nitrogen fertilizer or ammonium sulfate as the additive in tank mixtures containing these products.

8. Complete filling the tank, maintaining sufficient agitation at all times to ensure surface action until the spray tank mixture is uniform.
9. An anti-foaming agent may be added to reduce excessive foaming if needed.
10. Do not leave contents in the spray tank without continuous agitation. Always maintain agitation to avoid separation and buildup of undesirable residues on the walls of the spray tank.
11. Tough® 5 EC will remain active in the spray solution for at least 12 hours. However, make only sufficient mixture that will be sprayed the day in which it will be mixed. In case the spray solution remains in the tank for more than 12 hours, make sure to agitate for 30 minutes before making the application.

WEEDS CONTROLLED

Tough® 5 EC applied as directed in this label will control or partially control the weeds listed in Table 1.

Where reference is made to weeds partially controlled, partial control can either mean erratic control (good to poor) or consistent control at a level below that generally considered acceptable for commercial weed control.

For optimum control of weeds, apply Tough® 5 EC to actively growing weeds by the 4-leaf stage. A delay in spraying which permits weeds to grow beyond the proper application stage may result in decreased control. If weeds are under stress and not actively growing, they will be more difficult to control. Scout fields often to determine the exact timing for application.

If treatments must be made under adverse conditions or to larger weeds, use the higher rate allowed in this label. Cultivation may be necessary after application if all weeds are not properly controlled or if weeds regrow.

Tough® 5 EC can be applied in band application and in tank mix with other herbicides that are labeled for band applications.

Table 1. General Weed List

Tough® 5 EC, when applied as directed in this label, will control or suppress many annual broadleaf weeds, including but not limited to:

Amaranth, Palmer (Carelessweed)
Amaranth, spiny (Spiny pigweed)
Bedstraw, catchweed
Beggarweed, Florida
Burcucumber
Carpetweed
Chickweed, common
Cocklebur, common
Corn, chamomile
Corn, spurry
Deadnettle, purple
Deadnettle, spotted Eclipta
Eclipta, common
Galinsoga, hairy
Galinsoga, small flower
Hemp sesbania
Henbit
Jimsonweed
Kochia
Lambsquarters, common
Mayweed chamomile
Nightshade, American black
Nightshade, black
Nightshade, eastern black

Nightshade, purple
Nightshade, silverleaf
Pigweed, fringed
Pigweed, prostrate
Pigweed, redroot
Pigweed, smooth
Pigweed, tumble
Purslane, common
Senna, coffee
Shepherds purse
Sunflower, common
Sunflower, volunteer
Thistle, Russian
Waterhemp, tall
Waterhemp, common
Yellow rocket

Special Use Directions for Partial Control of Yellow and Purple Nutsedge: Apply 24 fl. oz. of Tough® 5 EC when sedges are 6-8 inches high for partial control of yellow and purple nutsedge. The addition of a crop oil concentrate is recommended for improved activity. Tough® 5 EC will burn back the top growth of the sedges. Regrowth may occur. Sedges must be actively growing without stress for optimum results. Partial control means significant activity, but not always at a level generally considered acceptable for commercial weed control.

CROP REPLANT & ROTATIONAL CROPS

Tough® 5 EC has no residual activity and when it is applied as directed on this label, no crop rotation restriction exists following normal harvest of the treated crop.

Peanuts, field corn, chickpea (Garbanzo beans), brassica head and stem vegetables (subgroup 5A), cabbage, collards or mint may be replanted immediately in case of catastrophic crop failure from hail, flood, etc.

If Tough® 5 EC is tank mixed with other products, follow the most restrictive product's crop rotation interval or instructions for replant.

CROP USE DIRECTIONS

CORN (INCLUDING FIELD CORN, SEED CORN*, AND POPCORN*)

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

Split applications of Tough® 5 EC 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® 5 EC. 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® 5 EC 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® 5 EC USED ALONE – POST EMERGENCE (after crop emergence)

Apply Tough® 5 EC 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® 5 EC 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® 5 EC.

For a list of weeds controlled by an application of Tough® 5 EC see Table 1. Application of Tough® 5 EC 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® 5 EC 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® 5 EC TANK MIXTURES FOR CORN

Tough® 5 EC 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® 5 EC may cause injury to corn when applied.

Postemergence Tank Mixtures in Corn

Apply Tough® 5 EC 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® 5 EC 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® 5 EC.

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 carbazone-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.
Primisulfuron-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, 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

PEANUTS

Tough® 5 EC can be applied by ground for postemergence weed control in peanuts, from cracking to 68 days before harvest.

Apply Tough® 5 EC 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® 5 EC 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® 5 EC.

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

Optimal weed control is obtained when Tough® 5 EC 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.

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 24 fl. oz (0.94 lb. pyridate active ingredient) of Tough® 5 EC 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.

Tough® 5 EC TANK MIXTURES FOR PEANUTS

Apply Tough® 5 EC at 24 fl. oz./A per application. Split applications of Tough® 5 EC may be made but do not exceed a total of 24 fl. oz. per treated acre per year. For a list of weeds controlled by an application of Tough® 5 EC see Table 1. Application of Tough® 5 EC at rates less than 24 fl. oz./A (0.94 lb a.i./A) in postemergence may result in incomplete weed control.

For best results, apply Tough® 5 EC 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® 5 EC.

Tough® 5 EC 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 peanuts can be used to include a different mode of action to help control or manage the development of resistant weed biotypes.

Adjuvants (nonionic surfactants or crop oil concentrate) may be used with Tough® 5 EC tank mixes where required by tank mix partners specified in this label (see the SPRAY ADDITIVES section of this label).

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

Tank Mix Partner	Directions
2,4-D (e.g. 2,4-DB 200, EPA Reg. No. 1381-215; 2,4-DB 175, EPA Reg. No. 2749-126)	Use this mixture for additional broadleaf weed control. Refer to product label for list of weeds controlled. The addition of spray additives will increase the hormonal 2,4-DB response in peanuts. In areas where lamb's quarters and pigweeds are the primary weed problems, apply 18 fl. oz of Tough® 5 EC tank mixed with the recommended label rate of 2,4-DB per treated acre.
S-metolachlor (e.g. Dual Magnum® Herbicide, EPA Reg. No. 100-816)	Use this mixture for additional grass control. Refer to the product label for list of weeds controlled. Apply this mixture from cracking and before grass emergence
Bentazon (e.g. Basagran® Herbicide, EPA Reg. No. 66330-413,	Use this mixture for additional broadleaf weed control. Refer to product label for list of weeds controlled. The addition of crop oil concentrate is recommended for optimum weed control
Acifluorfen + bentazon (e.g. Storm® Herbicide, EPA Reg. No. 70506-59) (acifluorfen + bentazon)	Use this mixture for additional broadleaf weed control. Refer to product label for list of weeds controlled. The addition of a nonionic surfactant or crop oil concentrate is recommended for optimum weed control
Imazethapyr (e.g. Pursuit® Herbicide, EPA Reg. No. 241-310)	Use this mixture for additional broadleaf weed control. Refer to product label for list of weeds controlled. The addition of a nonionic surfactant or crop oil concentrate is recommended for optimum weed control

Precaution: Some products available for tank mixing with Tough® 5 EC may cause injury to peanuts when applied.

CHICKPEA (GARBANZO BEANS)

Tough® 5 EC can be applied by ground application as a postemergence treatment to chickpea (garbanzo beans) with a pre-harvest interval of 60 days.

Apply Tough® 5 EC at 12-24 fl. oz./A per application.

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

Always add an appropriate adjuvant to the spray tank (see the SPRAY ADDITIVES section of this label).

For best results, apply Tough® 5 EC 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® 5 EC.

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

Optimal weed control is obtained when Tough® 5 EC 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. Add sethoxydim (e.g. Poast® Herbicide, EPA Reg. No. 7969-58), clethodim (e.g. Select Max® Herbicide, EPA Reg. No. 59639-132) or quizalofop-P-ethyl (e.g. Dupont™ Assure® II Herbicide, EPA Reg. No. 352-541) for postemergence grass weed control. Tough® 5 EC may be tank mixed with other registered herbicides for control of additional broadleaf weeds and/or grasses.

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 24 fl. oz (0.94 lb. pyridate active ingredient) of Tough® 5 EC 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 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.

LENTILS

Tough® 5 EC can be applied by ground application as a preemergence or postemergence treatment to lentils with a pre-harvest interval of 60 days.

Apply Tough® 5 EC at 6-20 fl. oz./A per application postemergence.

Apply Tough® 5 EC 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® 5 EC 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® 5 EC.

For a list of weeds controlled by an application of Tough® 5 EC see Table 1. In postemergence applications at rates less than 10 fl oz / acre, use Tough 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® 5 EC 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® 5 EC 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® 5 EC TANK MIXTURES FOR LENTILS

Tough® 5 EC 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.

RAPESEEDS (subgroup 20A, including Canola; Mustard seed; Flax seed; Borage; Crambe; Cuphea; Echium; Gold of Pleasure; Hare's ear mustard; Lesquerella; Lunaria; Meadowfoam; Milkweed; Oil radish; Poppy seed; Rapeseed; Sesame; Sweet rocket; Cultivars and/or hybrids of these)

Tough® 5 EC can be applied by ground application as a preemergence or postemergence treatment to rapeseeds (subgroup 20A) with a pre-harvest interval of 60 days.

Apply Tough® 5 EC at 6-10 fl. oz./A per application postemergence. Applications of Tough® 5 EC are tolerated more readily when rapeseeds are sufficiently hardened-off. On winter rapeseeds, Tough® 5 EC may be applied postemergence. Spring applications of Tough 600EC on winter canola are best applied when weeds are small and actively growing. On spring seeded rapeseeds, apply Tough® 5 EC when weeds are small and the crop is at the V3 to V5 growth stage. Spring rapeseeds tolerate Tough® 5 EC more readily when crop foliage is hardened-off. When spring rapeseeds are at the V2 to V3 growth stage, severe phytotoxicity may be expected.

Apply Tough® 5 EC 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® 5 EC 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® 5 EC.

For a list of weeds controlled by an application of Tough® 5 EC see Table 1. In postemergence applications at rates less than 10 fl oz / acre, use Tough 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® 5 EC 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® 5 EC may be tank mixed with other registered herbicides for control of additional broadleaf weeds and/or grasses.

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® 5 EC per acre per year.
- Do not exceed 10 fl. oz. (0.39 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.

BRASSICA, head and stem vegetables (subgroup 5A, including Broccoli; broccoli, Chinese; brussels sprouts; cabbage; cabbage, Chinese (napa); cabbage, Chinese mustard; cauliflower; cavalo broccolo; kohlrabi) and COLLARDS.

Tough® 5 EC can be applied by ground application as a broadcast postemergence treatment to collards, cabbage and the brassica head and stem vegetables (subgroup 5A) with a pre-harvest interval of 45 days. Application timing is crucial for product performance on labeled brassica crops. Read and follow the instructions for timing of postemergence applications below.

Timing of Postemergence Application:

Apply Tough® 5 EC to labeled brassica vegetables only when the crops are well established and leaves have developed a substantial waxy cuticle. For seeded brassica crops, apply Tough® 5 EC only when the crop has 4 fully expanded leaves. For transplanted brassica crops, allow the crop 2 to 3 weeks to establish an adequate root system in the field prior to applying Tough® 5 EC. Apply before brassica head and stem vegetables, cabbage and collards reach the 6 leaf stage (BBCH 16).

For best results, apply Tough® 5 EC to actively growing weeds and when weeds are small (at the 2 to 4-leaf stage). Weeds which emerge after application will not be controlled by Tough® 5 EC.

Apply Tough® 5 EC once at 24 fl. oz./A. Do not exceed a total of 24 fl. oz./A per application. Do not exceed a total of 24 fl. oz. per treated acre per year.

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

Optimal weed control is obtained when Tough® 5 EC 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.

ATTENTION: Tough® 5 EC may cause temporary discoloring of brassica leaves which come in contact with the spray solution. A wide range of head and stem brassica, cabbage and collard varieties are available for production. Varietal characteristics may influence the response of the crop to Tough® 5 EC. Determine crop sensitivity to Tough® 5 EC prior to adopting the herbicide in the production system.

DO NOT use adjuvants or surfactants when applying Tough® 5 EC to brassica head and stem vegetables (subgroup 5A), cabbage or collards. The use of adjuvants, surfactants, or other tank mix partners with such properties, may alter the waxy cuticle of the crop and lead to crop injury.

RESTRICTIONS

- Do not apply more than a total of 24 fl. oz (0.94 lb. pyridate active ingredient) of Tough® 5 EC 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 45 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 to brassica crops in tank mixture with surfactants or adjuvants
- DO NOT apply this product when wind conditions will allow drift to adjacent susceptible vegetation.

MINT

Tough® 5 EC can be applied by ground application and as a broadcast postemergence treatment to mint with a pre-harvest interval of 49 days.

Apply Tough® 5 EC at 24 fl. oz./A per application. Two applications of Tough® 5 EC at 24 fl.oz./A can be made but do not exceed a total of 48 fl. oz. per treated acre per year. Do not exceed a total of 24 fl. oz./A per application.

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

For best results, apply Tough® 5 EC 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® 5 EC.

Always add an appropriate adjuvant to the spray tank (see the SPRAY ADDITIVES section of this label).

Optimal weed control is obtained when Tough® 5 EC 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. Add sethoxydim (e.g. Poast® Herbicide, EPA Reg. No. 7969-58), clethodim (e.g. Select Max® Herbicide, EPA Reg. No. 59639-

132) or quizalofop-P-ethyl (e.g. Dupont™ Assure® II Herbicide, EPA Reg. No. 352-541) for postemergence grass weed control. Tough® 5 EC may be tank mixed with other registered herbicides for control of additional broadleaf weeds and/or grasses.

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 48 fl. oz (1.88 lb. pyridate active ingredient) of Tough® 5 EC 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 49 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

STORAGE AND DISPOSAL

STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage and disposal.

PESTICIDE STORAGE: Keep container tightly sealed when not in use. This product should be stored in its original container in a cool, dry locked place out of reach of children and pets.

PESTICIDE DISPOSAL: To avoid waste, use all material in this container by application according to label directions. If waste cannot be avoided, offer remaining product to a waste disposal facility or pesticide disposal program (often such programs are run by state or local governments).

CONTAINER HANDLING:

[**NOTE:** This product is available in multiple containers. Refer to the Net Contents section of this product's labeling for the applicable "Nonrefillable" or "Refillable" designation. Follow the container handling instructions below that apply to your container type/size.] *{Note to reviewer: "NOTE" section preceding this sentence is optional and will be included if multiple container sizes are indicated below. Instructions specific to the container size (Nonrefillable Containers 5 Gallons or Less, Nonrefillable containers larger than 5 gallons, Refillable containers larger than 5 gallons) may only be included on final printed labelling for the appropriate, respective container size.}*

[Nonrefillable Containers 5 Gallons or Less:

Nonrefillable container. Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. **Triple rinse as follows:** Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container 1/4 full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedures approved by State and local authorities. Plastic containers are also disposable by incineration. Do not burn unless allowed by state and local ordinance. If burned stay out of smoke.]

[Nonrefillable containers larger than 5 gallons:

Nonrefillable container. Do not reuse or refill this container. Triple rinse or pressure rinse container (or equivalent) promptly after emptying. **Triple rinse as follows:** Empty the remaining contents into application equipment or a mix tank. Fill the container 1/4 full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times. **Pressure rinse as follows:** Empty the remaining contents into application equipment or a mix tank and continue to drain for 10 seconds after the flow begins to drip. Hold container upside down over application equipment or mix tank or collect rinsate for later use or disposal. Insert pressure rinsing nozzle in the side of the container, and rinse at about 40 psi for at least 30 seconds. Drain for 10 seconds after the flow begins to drip. Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedures approved by State and local authorities. Plastic containers are also disposable by incineration. Do not burn unless allowed by state and local ordinance. If burned stay out of smoke.]

[Refillable containers larger than 5 gallons:

Refillable container. Refill this container with pesticide only. Do not reuse this container for any other purpose. Cleaning the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller. To clean the container before final disposal, empty the remaining contents from this container into application equipment or a mix tank. Fill the container about 10% full with water. Agitate vigorously or recirculate water with the pump for two minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times. Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedures approved by State and local authorities. Plastic containers are also disposable by incineration. Do not burn unless allowed by state and local ordinance. If burned stay out of smoke.]

Do not transport if container is damaged or leaking. If the container is damaged, leaking or obsolete, or in the event of a major spill, fire or other emergency, call CHEMTREC Day or Night at 1-800-424-9300.

CONDITIONS OF SALE AND LIMITATION OF WARRANTY AND LIABILITY

NOTICE: Read the entire Directions for Use and Conditions of Sale and Limitation of Warranty and Liability before buying or using this product. If the terms are not acceptable, return the product at once, unopened, and the purchase price will be fully refunded. Otherwise, to the extent consistent with applicable law, use by the buyer or by any other user constitutes acceptance of the terms and conditions of the Conditions of Sale and Limitation of Warranty and Liability stated herein.

The Directions for Use of this product must be followed carefully. It is impossible to eliminate all risks associated with the use of this product. Plant injury, lack of performance or other unintended consequences may result because of such factors as manner of use or application, weather or crop conditions, presence of other materials or other influencing factors in the use of the product, which are beyond the control of BELCHIM or Seller. To the extent consistent with applicable law, all such risks shall be assumed by Buyer and User, and Buyer and User agree to hold BELCHIM and Seller harmless for any claims relating to such factors.

BELCHIM warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated in the Directions for Use, subject to the inherent risks referred to above, when used in accordance with directions under normal use conditions. To the extent consistent with

applicable law, this warranty does not extend to the use of this product contrary to label instructions, or under abnormal conditions or under conditions not reasonably foreseeable to or beyond the control of Seller or BELCHIM, and Buyer and User assume the risk of any such use. **To the extent consistent with applicable law, BELCHIM MAKES NO WARRANTIES OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE NOR ANY OTHER EXPRESS OR IMPLIED WARRANTY EXCEPT AS STATED ABOVE.**

To the extent consistent with applicable law BELCHIM or Seller shall not be liable for any incidental, consequential or special damages resulting from the use or handling of this product. To the extent consistent with applicable law, THE EXCLUSIVE REMEDY OF THE USER OR BUYER, AND THE EXCLUSIVE LIABILITY OF BELCHIM AND SELLER FOR ANY AND ALL CLAIMS, LOSSES, INJURIES OR DAMAGES (INCLUDING CLAIMS BASED ON BREACH OF WARRANTY, CONTRACT, NEGLIGENCE, TORT, STRICT LIABILITY OR OTHERWISE) RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT, SHALL BE THE RETURN OF THE PURCHASE PRICE OF THE PRODUCT OR, AT THE ELECTION OF BELCHIM OR SELLER, THE REPLACEMENT OF THE PRODUCT.

BELCHIM and Seller offer this product, and Buyer and User accept it, subject to the foregoing Conditions of Sale and Limitation of Warranty and Liability, which may not be modified except by written agreement signed by a duly authorized representative of BELCHIM.

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ImpactZ® is a registered trademark of Amvac Chemical Co.

Select Max® is a registered trademark of Valent U.S.A. Corporation.

Storm® is a registered trademark of United Phosphorus, Inc.

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SUPPLEMENTAL LABELING FOR USE ON SEED CORN, POPCORN, LENTILS, AND RAPESEEDS (SUBROUP 20A) Tough® 5 EC 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: 100.0%

*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® 5 EC Herbicide before applying.

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

DIRECTIONS FOR USE

{ Note to reviewer: Some crops/uses may be removed from this final printed supplemental label. }

CORN (INCLUDING SEED CORN*, AND POPCORN*)

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

Split applications of Tough® 5 EC 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® 5 EC. 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® 5 EC 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® 5 EC USED ALONE – POST EMERGENCE (after crop emergence)

Apply Tough® 5 EC 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® 5 EC 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® 5 EC.

For a list of weeds controlled by an application of Tough® 5 EC see Table 1. Application of Tough® 5 EC 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® 5 EC 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® 5 EC TANK MIXTURES FOR CORN

Tough® 5 EC 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® 5 EC may cause injury to corn when applied.

Postemergence Tank Mixtures in Corn

Apply Tough® 5 EC 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® 5 EC 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® 5 EC.

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 carbazonemethyl (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	Use this mixture for additional broadleaf weed control and enhanced grass control.

(e.g. Lexar® EZ Herbicide, EPA Reg. No. 100-1414)	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.
Primisulfuron-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, 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® 5 EC can be applied by ground application as a preemergence or postemergence treatment to lentils with a pre-harvest interval of 60 days.

Apply Tough® 5 EC at 6-20 fl. oz./A per application postemergence.

Apply Tough® 5 EC 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® 5 EC 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® 5 EC.

For a list of weeds controlled by an application of Tough® 5 EC see Table 1. In postemergence applications at rates less than 10 fl oz / acre, use Tough 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® 5 EC 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® 5 EC 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® 5 EC TANK MIXTURES FOR LENTILS

Tough® 5 EC 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.

RAPESEEDS (subgroup 20A, including Canola; Mustard seed; Flax seed; Borage; Crambe; Cuphea; Echium; Gold of Pleasure; Hare's ear mustard; Lesquerella; Lunaria; Meadowfoam; Milkweed; Oil radish; Poppy seed; Rapeseed; Sesame; Sweet rocket; Cultivars and/or hybrids of these)

Tough® 5 EC can be applied by ground application as a preemergence or postemergence treatment to rapeseeds (subgroup 20A) with a pre-harvest interval of 60 days.

Apply Tough® 5 EC at 6-10 fl. oz./A per application postemergence. Applications of Tough® 5 EC are tolerated more readily when rapeseeds are sufficiently hardened-off. On winter rapeseeds, Tough® 5 EC may be applied postemergence. Spring applications of Tough 600EC on winter canola are best applied when weeds are small and actively growing. On spring seeded rapeseeds, apply Tough® 5 EC when weeds are small and the crop is at the V3 to V5 growth stage. Spring rapeseeds tolerate Tough® 5 EC more readily when crop foliage is hardened-off. When spring rapeseeds are at the V2 to V3 growth stage, severe phytotoxicity may be expected.

Apply Tough® 5 EC 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® 5 EC 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® 5 EC.

For a list of weeds controlled by an application of Tough® 5 EC see Table 1. In postemergence applications at rates less than 10 fl oz / acre, use Tough 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® 5 EC 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® 5 EC may be tank mixed with other registered herbicides for control of additional broadleaf weeds and/or grasses.

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® 5 EC per acre per year.
- Do not exceed 10 fl. oz. (0.39 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.