Herbicide
PROVEN SYNERGY* WITH HPPD's

TOUGH 5EC®

Mode of Action:
- *Photosynthesis II inhibitor*
- *Targets unique pathway within the PSII group of herbicides (Groups 5, 6 & 7)*
- *WSSA Classification: Group 6*
- *No known cross-resistance to other PSII's*

ACTIVE INGREDIENT:
Pyridate (Carbonothioic acid, O-(6-chloro-3-phenyl-4-pyridizinyl) S-octyl ester):................... 56.1%
OTHER INGREDIENTS: 43.9%
TOTAL: 100.00%
* Contains 5 lbs of pyridate per gallon of product

QUICK FACTS:
- *Postemergence, contact activity only*
- *Rainfast within 1 hour*
- *No residual or rotation restrictions*

- *Controls key broadleaf weeds such as but not limited to: Common Waterhemp, Palmer amaranth, Kochia, Common Lambsquarters*
- *Tank-mixed: 8 oz/ac with other products active on the key weeds*

Table 6. Weed Response to Postemergence Herbicides in Corn - Broadleaf Weeds

Broadleaf Weeds

	Annual morningglory	Eastern black nightshade	Burcucumber	Cocklebur	Common ragweed	Common ragweed (group 2-R)	Giant ragweed	Giant ragweed (group 2-R)	Jimsonweed	Kochia	Lambsquarters	Lambsquarters (group 5-R)	Palmer amaranth (group 2-R)	Palmer amaranth (group 2+9-R)	Pigweed (redroot/smooth)	Smartweed	Velvetleaf	Waterhemp (group 2-R)	Waterhemp (group 2+ 9-R)	Waterhemp (group 2+ 9+14 -R)
Postemergence																				
Impact®/Impact Core/ Armezon®/Armezon PRO	7	9	7+	8	7	7	7	7	9	8+	9	9	8	8	9	6	9	8	8	8
Laudis®	7	9	7	8	8	8	8	8	9	8	9	9	8	8	9	8	9	8	8	8
Mesotrione	7	9	8	7+	7	7	8	8	9	8	9	9	8	8	8	9	9	8	8	8
Shieldex®	7	9	7+	8	7	7	7	7	9	8+	9	9	8+	8+	9	8	9	8	8	8
TOUGH® 5EC	↓		↓	↓	↓	↓	↓	↓					↓	↓		↓		↓	↓	↓
TOUGH® 5EC + Group 27 herbicide[4]	8	9	8	9	8+	8+	9	9	9	8	9	9	9	9	9	9	9	9	9	9

↓ = *Increased Broad-spectrum Control by Adding TOUGH 5EC*

[4]Group 27 includes: Mesotrione, Armezon/Impact, Laudis, Shieldex
7 = 70-80%, 8 = 80-90%, 9 = 90-100% control

Table 6 from 2022 Ohio, Indiana, Illinois Weed Control Guide pg. 42-43

* Patent Pending

NOTE: Control ratings for the HPPD's would be lower on HPPD resistant populations. That's when the synergistic increase in control by adding TOUGH to the tank is most evident!